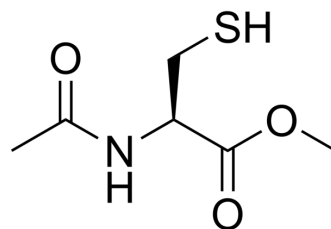


## Methyl acetyl-L-cysteinate

<b>Cat. No.:</b>	HY-23174
<b>CAS No.:</b>	7652-46-2
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>11</sub> NO <sub>3</sub> S
<b>Molecular Weight:</b>	177.22
<b>Target:</b>	Amino Acid Derivatives
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (564.27 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.6427 mL	28.2135 mL	56.4270 mL
	5 mM	1.1285 mL	5.6427 mL	11.2854 mL
	10 mM	0.5643 mL	2.8214 mL	5.6427 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Methyl acetyl-L-cysteinate is a cysteine derivative<sup>[1]</sup>.

#### In Vitro

Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Luckose F, et al. Effects of amino acid derivatives on physical, mental, and physiological activities. Crit Rev Food Sci Nutr. 2015;55(13):1793-807.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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